

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number
WO 2005/096751 A3

(51) International Patent Classification⁷: **G02B 6/00**

(21) International Application Number: PCT/US2005/011021

(22) International Filing Date: 1 April 2005 (01.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/559,140 2 April 2004 (02.04.2004) US

(71) Applicant (for all designated States except US): **EKSGENT TECHNOLOGIES LLC [US/US]**; 2021 La Positas Court, Suite 161, Livermore, CA 94550 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ARNOLD, Don, W.** [US/US]; 17461 Old Tower Road, Livermore, CA 94550 (US). **HENCKEN, Kenneth, R.** [US/US]; 2665 Calle Alegría, Pleasanton, CA 94566 (US). **DATWANI, Sammy, S.** [GB/US]; 6450 Dougherty Road, Apt #634, Dublin, CA 94568 (US). **LEUNG, Patrick, Pak-Ho** [CN/US]; 1060 Furlong Street, Belmont, CA 94002 (US). **CYR, Douglas**,

R. [CA/US]; 608 Via Del Sol, Livermore, CA 94550 (US). **REHM, Jason, E.** [US/US]; 1211 Regent Street, Alameda, CA 94501 (US).

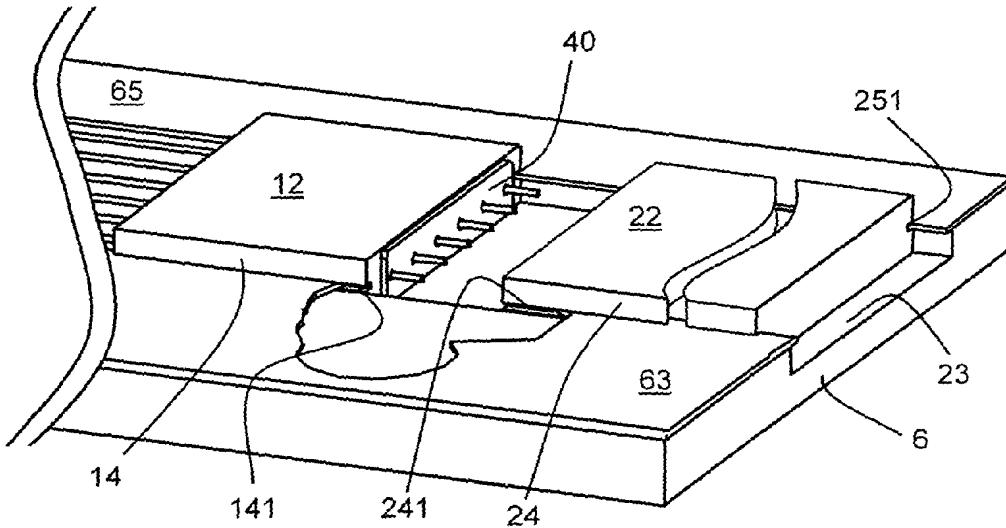
(74) Agents: **SHELDON, Jeffrey, G.** et al.; Sheldon & Mak, 225 South Lake Avenue, Suite 900, Pasadena, CA 91101 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: MICROFLUIDIC CONNECTIONS





FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
24 November 2005

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.